

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claims 1 and 7 as follows:

**LISTING OF CLAIMS:**

1. (Currently Amended) A system for monitoring wavelength division multiplexed channels in an optical signal, the system comprising:

a phased-array optical wavelength demultiplexer (phasar) device including an input port for receiving an input optical signal, and an output port for transmitting an optical signal, the input and output ports being connected by a waveguide array;

phase control means connected to receive a control signal and operable to vary the effective optical length of each waveguide in the array, such that the phase of optical signals passing through respective waveguides also vary in dependence upon that received control signal;

a detector [[means]] connected to receive the output optical signal from the phasar device, and operable to produce a detector signal relating to that output optical signal; and

control means connected to receive the detector signal, and operable to supply ~~the control signal to the phase control means[[,]]~~ such that ~~respective signals from desired ones of the multiplexed channels are output in turn from the phasar device to the detector means~~ such that a selected signal relating to a desired one of the multiplexed channels is output from the phasar device to the detector, the control means also being operable to vary the control signal such that a plurality of such

selected signals, relating to respective multiplexed channels, are output in turn from the phasar device to the detector.

2. (Original) A system as claimed in claim 1, wherein the phase control means are provided by a heater device which acts on the waveguides in the waveguide array, thereby to vary the temperature of the waveguides.

3. (Canceled)

4. (Original) A system as claimed in claim 1, wherein the phase control means are operable to cause an electra-optic effect in the waveguides of the array.

5. (Canceled)

6. (Original) A system as claimed in claim 1, wherein the phase control means are operable to cause a plasma effect in the waveguides of the array.

7. (Currently Amended) A system as claimed in claim 1, wherein the phasar device, phase control means and detector [[means]] are integrated on a single integrated device.

8. (Original) A system as claimed in claim 1, comprising compensation means for adjusting the control signal on the basis of the temperature of the phasar device.